

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 March 2005 (17.03.2005)

PCT

(10) International Publication Number  
WO 2005/023239 A1

(51) International Patent Classification<sup>7</sup>: A61K 31/198,  
31/401, 31/375, 31/353, 35/78, 33/06, 33/04, 33/34, 33/32,  
A61P 9/00, 9/10

(74) Agent: DEHN, Frank; Alexanderstrasse 3, 70184  
Stuttgart (DE).

(21) International Application Number:  
PCT/EP2004/009263

(22) International Filing Date: 18 August 2004 (18.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10/657,019 5 September 2003 (05.09.2003) US  
10/801,262 15 March 2004 (15.03.2004) US

(71) Applicant and

(72) Inventor: RATH, Matthias [DE/NL]; Ambachstraat 20,  
NL-7609 KL Almelo (NL).

(72) Inventors: NIEDZWIECKI, Aleksandra; 1394 Heck-  
man Way, San Jose, CA 95129 (US). IVANOV, Vadim;  
6535 Ridgewood Drive, Castro Valley, CA 94552 (US).  
ROOMI, Waheed; 983 La Mesa Terrace E, Sunnyvale, CA  
94086 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: PHARMACEUTICAL COMPOSITION COMPRISING I.A. VITAMIN C, MAGNESIUM, GREEN TEA EXTRACT  
FOR RETARDING CARDIOVASCULAR DISEASES

(57) Abstract: The present invention provides pharmaceutical compositions comprising lysine, proline, arginine, vitamin C, mag-  
nesium, green tea extract, N-acetyl-cysteine, selenium, copper, manganese and one pharmaceutical acceptable component selected  
from the group consisting of a carrier, a diluent, and an excipient, wherein the pharmaceutical composition without the acceptable  
component contains 7-9 wt % magnesium, 20-30 wt % ascorbic acid and 11-25 wt % green tea extract. A method of treating cardio-  
vascular diseases using the pharmaceutical compositions are also disclosed, more preferably for the treatment of post-menopausal  
women.

WO 2005/023239 A1

EV 320248528 45